2022 - 2023

QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency: Sri. Nandan Kumar M N, Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

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QC ABSTRACT

Nameof Work: Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testesas per frequency	Testes Results
1	1:3:6	26.36 Cum	1	1	Pass
2	M20	57.36 Cum	5	5	Pass
3	Steel	3.3.7 Tonne	1	1	Pass
4	Slab 100mm	162.00 Sqm	1	1	Pass
5	Slab 230mm	15.90 Sqm	1	1	Pass
6	M10	9.72 Cum	2	2	Pass
7	Kerb	248.00 Nos	1	1	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

AG-01

A.E.E

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date: 18.01.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Nandan Kumar M N,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE	:	December - 2022
DATE OF TESTING	:	16.01.2023 to 18.01.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date : 18.01.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Date of Testing : 18.01.2023

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	36	3.60	5.40	94.6	70-100
600 Micron	82	8.20	13.60	86.4	40-100
300 Micron	250	25.00	38.60	61.4	5-70
150 Micron	482	48.20	86.80	13.2	0-15

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date : 18.01.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Date of Testing : 18.01.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	182	3.6	3.6	96.4	95-100
10	2430	48.6	52.2	47.8	25-55
4.75	1950	39.0	91.2	8.8	0-10

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date : 18.01.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Date of Testing : 18.01.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	8230	54.87	56.09	43.91	30-70
10	3265	21.77	77.86	22.14	10-35
4.75	2815	18.77	96.63	3.37	0-5

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date : 23.01.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore

Name of Work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Steel Dia/Length : 10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 23.01.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	10	0.617	559	645	1.15	13.5
2	TMT	12	0.889	569	662	1.16	15

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date: 31.01.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2023	31.01.2023	8.126	168.9	7.51
2	24.01.2023	31.01.2023	8.135	184.6	8.20
3	24.01.2023	31.01.2023	8.115	195.3	8.68

Note:

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date: 31.01.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2023	31.01.2023	8.132	198.2	8.81
2	24.01.2023	31.01.2023	8.144	185.2	8.23
3	24.01.2023	31.01.2023	8.156	176.3	7.84

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date: 21.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2023	21.02.2023	8.165	255.3	11.35
2	24.01.2023	21.02.2023	8.138	274.5	12.20
3	24.01.2023	21.02.2023	8.146	262.3	11.66

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date: 28.01.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.01.2023	28.01.2023	8.136	365.2	16.23
2	27.01.2023	28.01.2023	8.154	326.2	14.50
3	27.01.2023	28.01.2023	8.110	345.2	15.34

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date: 24.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.01.2023	24.02.2023	8.184	502.2	22.32
2	27.01.2023	24.02.2023	8.169	484.6	21.54
3	27.01.2023	24.02.2023	8.155	496.2	22.05

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23

Date: 07.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.01.2023	07.02.2023	8.184	336.3	14.95
2	31.01.2023	07.02.2023	8.145	349.5	15.53
3	31.01.2023	07.02.2023	8.158	352.4	15.66

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23 Date: 07.02.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.01.2023	07.02.2023	8.177	338.5	15.04
2	31.01.2023	07.02.2023	8.156	346.5	15.40
3	31.01.2023	07.02.2023	8.168	352.9	15.68

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23

Date: 03.03.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Nandan Kumar M N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2023	03.03.2023	8.136	523.2	23.25
2	03.02.2023	03.03.2023	8.165	508.9	22.62
3	03.02.2023	03.03.2023	8.148	516.2	22.94

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Job No.: CACE/BBMP/NKMN/W.No.01/2022-23

Date: 10.02.2023

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. Nandan Kumar M N,** Contractor, Bangalore.
Name of Work	:	Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	10.02.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{25}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	115.00	1.692	2312.74	1.28	0.922	134.90	21.20	22.90	21.12	26.39
2	90.00	117.00	1.754	2356.51	1.30	0.924	137.80	21.66	23.39	21.63	27.03
3	90.00	118.00	1.778	2368.51	1.31	0.926	138.90	21.83	23.58	21.83	27.28

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

AE-01

A.E.E

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NKMN/W.No.01/2022-23

Date: 13.02.2023

KERB STONE (CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Sri. Nandan Kumar M N,** Contractor, Bangalore.
Name of Work	:	Improvements to roads and drains at Surabi Layout in Kempegowda ward no-01 of Yelahanka Sub Division, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	13.02.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	71.00	0.325	2331.28	1.42	0.937	33.60	17.11	18.48	17.32	21.65
2	50.00	73.00	0.339	2365.09	1.46	0.942	34.20	17.42	18.81	17.71	22.14
3	50.00	75.00	0.352	2390.30	1.50	0.946	34.90	17.77	19.20	18.16	22.70

Note:

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AE-01

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